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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/553,579	04/20/2006	Daniel Dupuis	OSSUR.908APC	1495	
20995 7550 06/15/2010 KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET			EXAM	EXAMINER	
			NGUYEN, XUAN LAN T		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jcartee@kmob.com efiling@kmob.com eOAPilot@kmob.com

Application No. Applicant(s) 10/553,579 DUPUIS ET AL. Office Action Summary Examiner Art Unit Lan Nouven 3657 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 30 April 2010. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-3.5-16 and 21-31 is/are pending in the application. 4a) Of the above claim(s) 14-16 and 21-31 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-3 and 5-13 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 25 August 2009 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Informal Patent Application 3) Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date _

6) Other:

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/30/10 has been entered.

Election/Restrictions

2. Applicant amended claim 1 to include a joint assembly and how the brake interacts with the joint assembly. The structures of the joint assembly and how it interacts with the SMA brake are particular to the combination of a prosthesis as recited in the non-elected claim 14. Originally, Applicant had elected the invention of the brake to be examined. It is reminded that claims 1-3 and 5-13 need to be free from the limitations of a combination, as originally elected. Therefore, the joint assembly and how it interacts with the SMA brake as amended are not further treated.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the

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art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1-3 and 5-13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The amended portion "wherein the moving away of said friction pad from said brake member induces longitudinal displacement of said linear shaft and induces a corresponding rotation in said joint assembly" is not supported by the specification as originally filed. When the friction pad moves away from the brake member, it does not induce motion of the linear shaft nor the joint assembly.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-3 and 5-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels (6,045,076) in view of Chu (5,831,417).

Re: claim 1, Daniels shows a friction brake assembly, in figure 26(b), to act between a main actuator, a reel, and a linear shaft 353 relatively moveable with respect to said main actuator, as in the present invention, comprising: a brake member 346

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connected to said main actuator, a carrier 348 connected to said shaft; a friction pad (not shown but inherent in a brake shoe) attached to said carrier for engagement with said brake member; a first actuator 344 including at least one shape memory alloy element, said first actuator being operable upon said carrier to move said friction pad into engagement with said brake member, wherein the engagement of said friction pad with said brake member inhibits longitudinal displacement of said linear shaft 353; and a second actuator 357 being operable upon said carrier to move said friction pad away from said brake member, wherein the moving away of said friction pad from said brake member allows longitudinal displacement of said linear shaft and a control circuit 50 to operate selectively said first actuator. Daniels shows a spring as a second actuator while the claim requires an SMA as a second actuator. Chu is relied upon to teach the concept of having two SMA actuators in figure 5. As shown, the reel mechanism 335 is actuated by two SMA actuators 305A and 305B wherein actuator 305A engages the drag while actuator 305B releases the drag of the reel mechanism. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Daniel's brake to employ an SMA actuator as a second actuator in the brake of Daniel instead of a spring, in order to maintain an engage state or a release state of the brake without constant supply of current to each SMA as taught by Chu.

Re: claims 2, 3, 8 and 9, figure 26(b) of Daniels shows a horizontal beam as a connection for the SMA actuator 344 and spring actuator 357 as in Applicant's. As modified by Chu, the horizontal beam of Daniels would be a connection for both SMA actuators.

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Re: claims 5, 6 and 10-12, Daniels show said shape memory alloy elements 344 are tensile elements and said control circuit 50 changes the length of said elements to actuate said brake.

Re: claim 7, Daniels shows the brake member as a drum 346 rotatably mounted on said main actuator and said carrier 348 is pivotally secured to said actuator 344 and said would be second actuator as modified by Chu for movement into or out of engagement with said drum.

Re: claim 13, Daniels shows said carrier 348 is pivotally mounted for movement about an axis, axis of shaft 353, parallel to but spaced from the axis of rotation of said drum 346.

Response to Arguments

 Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US patent 5,749,533 is cited for another brake.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lan Nguyen whose telephone number is (571) 272-7121. The examiner can normally be reached on Monday through Friday, 7:30am to 4:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Siconolfi can be reached on (571) 272-7124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Xuan Lan Nguyen/ Primary Examiner Art Unit 3657